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Title of Invention:

SYSTEM DECODER OF DIGITAL VIDEO DISK REPRODUCTION APPARATUS

[Abstract]

1. Applicable Field in the Industry which is described in Claims
A Digital Video Disk Reproduction Apparatus

2. Problems to be Solved by the Invention

A digital video disk reproduction apparatus, which advances a time of processing ID data which is read out from a disk, jacks up value as the information referring to a disk search time, and jacks up accuracy of the above-described information, is provided.

3. Measures to Solve the Problems

In a system decoder of digital video disk reproduction apparatus comprising a demodulator for demodulating the data read out from the disk in the symbol unit consisting of predetermined bit to output, and a main apparatus controller for controlling a disk search operation based on a sector position information, said system decoder is characterized by comprising: a synchronous detector for detecting a sector synchronization from the data which is read out in the disk; a first error corrector for laterally performing an error correction of the demodulated data; a data buffer unit for buffering the data which is laterally error-corrected; a second

error corrector for longitudinally performing an error correction of the data which is output from the data buffer unit; a memory for storing together the ID data and the main data which are output from the demodulator in the predetermined block unit, reading out the data in the block unit to transmit the data to the first and second error correctors, and re-storing the data which are applied the second error correction; and an ID error corrector for, when the sector synchronization is detected, detecting only ID data part of the data which are output from the data buffer unit, to perform an ID error correction, and transferring the corrected ID data to the main apparatus controller as a sector position information.

4. Important Uses of the Invention

Detection of the sector position information which is required searching the digital video disk.